

Display System for an Interlaced Image Frame with a Wobbling Device

ABSTRACT

A display system for displaying an interlaced image frame, having a top field and a bottom field, includes an image processing unit configured to process a stream of pixel data corresponding to the top and bottom fields and generate a number of image sub-frames, a modulator configured to generate a light beam bearing the number of image sub-frames, and a wobbling device configured to displace the light beam such that each of the number of image sub-frames is spatially displayed in an image sub-frame location offset from image sub-frame locations of others of the image sub-frames. The image processing unit processes the pixel data corresponding to the top field to generate at least one of the number of image sub-frames and the pixel data corresponding to the bottom field to generate at least one of the number of image sub-frames.